

Survey Requested by SBA S.Y. Vessel Owner or Agent TALLEN MARINE Date 8-29-90
Vessel T-13 Type of Vessel TANK BARGE Specific Location of Vessel SBA / JENNINGS
Last Three (3) Cargoes DIET (3X) Tests Performed O2 / H2 / VISUAL Time Survey Completed 9:30 AM

BOW RAKE

SAFE FOR WORKERS

STERN RAKE

SAFE FOR HOT WORK

CARGO TANKS

No. 1-2-3 P/S

SAFE FOR WORKERS

SAFE FOR HOT WORK

AFT TRIM TANK

FORCED AIR VENTILATION READ IN WORK TANK

(MIN. 1000 CFM)

HMX 271 - OK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed Robert J. SBA Name Robert J. SBA Company SBA Date 8/29/90 Signed James H. Mercer Marine Chemist 577 Certificate No. 577

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

Survey Requested by SBA S.V. Vessel Owner or Agent TALLEN MARINE Date 9-19-90
Vessel GLENN C Type of Vessel TANK BARGE Specific Location of Vessel SBA / TEXAS, LA
Last Three (3) Cargoes DIESEL (3X) / OIL / LFL / VISUAL Tests Performed 8:15 AM Time Survey Completed

BOW RAKE / SAFE FOR WORKERS
STERN RAKE / SAFE FOR HOT WORK

CARGO TANKS

No. 1 P/S, 2 P/S / SAFE FOR WORKERS
SAFE FOR HOT WORK

FORCED AIR VENTILATION REQUIRED IN WORK TANK
(when working in tank) (see spec)
Pall Mall

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CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [Signature] Name [Signature] Company SBA Date 9-19-90 Signed [Signature] Marine Chemist 577 Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

P.O. BOX 3602 BEAUMONT, TEXAS 77704
(409) 832-6499, 898-4822, 866-4223
W.B. HATAWAY 537 K.L. MERCER 577

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 24258

Survey Requested by SEA Vessel Owner or Agent TAIRN Date 9-20-10
Vessel TAIRN BAKER Type of Vessel Oil/Low Voltage Specific Location of Vessel SEA
Last Three (3) Cargoes DIESEL, WATER Tests Performed 4:00 PM Time Survey Completed

FORWARD / AFTER TANKS

SAFE FOR WORKERS

WATER TANK #1

SAFE FOR HOT WORK

DIESEL TANKS #1 & 2

AIR VENT. (11 IN. 50.0 FT. IN.)

#2 P&S

REQUIRES FOR WORKERS

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CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

Name

Company

Date

Signed

Marine Chemist

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

Survey Requested by SBA S.V. Vessel Owner or Agent TALLEN Date 6-19-91
Vessel T-13 Type of Vessel TANK BARGE Specific Location of Vessel SBA/Texas
Last Three (3) Cargoes DIESEL FUEL (3X) Tests Performed O₂, LEL, VISUAL Time Survey Completed 9:15 AM

BOW RAKE / SAFE FOR WORKERS
STERN RAKE / SAFE FOR HOTWORK

CARGO TANKS
No. 1-2-3 P/S / SAFE FOR WORKERS
TRIM TANK / SAFE FOR HOTWORK

FORCED AIR VENTILATION REQ'D. IN WORK TANK.
(MIN. 1000 CFM)

CARGO LINES - DRAINED, VALVES CLOSED.

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CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [Signature] Company SBA Date 6/19/91 Signed [Signature] Marine Chemist Certificate No. 577

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

Survey Requested by

Vessel Owner or Agent

Date

Vessel

Type of Vessel

Specific Location of Vessel

Last Three (3) Cargoes

Tests Performed

Time Survey Completed

ALL CARGO TANKS (#1111S #211S) — WITH AIR VENT. (MIN 500 CFM)
#311S AFTER TANK — SAFE FOR WORKERS
SAFE FOR HOT WORK

CARGO LINES — OPENED, WASHED, DRYED
CLOSED

FORWARD + AFTER TANKS — SAFE FOR WORKERS
SAFE FOR HOT WORK
AIR VENT. (MIN 500 CFM)
REQUIRED.

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CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

Name

Company

Date

Signed

Marine Chemist

Certificate No

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

Survey Requested by SBA S/y Vessel Owner or Agent TAICN Date 9-30-92
Vessel RIG RUNNER Type of Vessel TANK BARGE Specific Location of Vessel SBA S/y
DIESEL, WATER Tests Performed O2/LEC/VISUAL Time Survey Completed 4:00 PM
Last Three (3) Cargoes

~~FORWARD / AFTER TANKS~~

~~SAFE FOR WORKERS~~

~~WATER TANK #1~~

~~SAFE FOR HOT WORK~~

~~DIESEL TANKS #11 & 15~~

~~AIR VENT. (MAIN 500 RTM)~~

~~2 42 P & S~~

~~REQUIRED FOR WORKERS~~

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"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [Signature] Name SBA Company 9-30-92 Date [Signature] Signed [Signature] Marine Chemist 106/106/106 Certificate No. 1537

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

Survey Requested by SBA 5/4
Vessel RIG RUNNER
Last Three (3) Cargoes DIESEL, WATER
Vessel Owner or Agent TALEN
Type of Vessel TANK BARGE
Tests Performed O₂ / CEL / VISUAL
Date 8-3-93
Specific Location of Vessel SBA 5/4
Time Survey Completed 9:30 AM

DIESEL CARGO TANKS #2P/5, #3P/5 - SAFE FOR WORKERS
WATER CARGO TANK #1 - SAFE FOR HOT WORK
FORWARD RAKE - AIR VENT. (MIN. 500 CFM)
REQUIRED IN HOT WORK
TANK

AFTER RAKE - WATER
SAFE FOR HOT WORK
ON OUTSIDE SHELL

This List of Certificates
are For Diesel oil - 6 oil - Asphalt - Grain -
Barges - Jack Barges - & Miss. repairs.
Requiring Certificate For Hot Work -

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Signed [Signature] Name SBA 8-3-93 Date Signed W.B. Hataway #537 Marine Chemist Certificate No

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

SBA Survey Requested by
T-13 Vessel
DIESEL FUEL (3X) Last Three (3) Cargoes
TALENS MARINE & FUEL Vessel Owner or Agent
TANK BARGE Type of Vessel
O.C. L.L. VISUAL Tests Performed
9-23-93 Date
SBA TALENS Specific Location of Vessel
10:45 AM Time Survey Completed

BOW RAKE / SAFE FOR WORKERS
STERN RAKE / SAFE FOR HOTWORK.

CARGO TANKS:
No. 1-2-3 P/S

TRIM TANK / SAFE FOR WORKERS
SAFE FOR HOTWORK.

FORCED AIR VENTILATION REQUIRED IN WORK TANK.
(MIN. 1000 CFM)

CARGO LINES FROM MANIFOLD / BLOWN WITH AIR
ON DECK TO CARGO TANKS / SAFE FOR HOTWORK
* AIR REQUIRED BLOWING THRU LINES.

LINES TO METER AND TO PUMPS - NOT SAFE FOR HOTWORK.

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NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed: [Signature] Date: 9/23/93 Signed: [Signature] Certificate No. 577

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

SBA TALENS MARINE & FUEL 9-23-93
Survey Requested by Vessel Owner or Agent Date
T-13 TANK BARGE SBA/TALENS
Vessel Type of Vessel Specific Location of Vessel
DIESEL FUEL (3X) OIL LEL VISUAL 10:45 AM
Last Three (3) Cargoes Tests Performed Time Survey Completed

BOW RAKE / SAFE FOR WORKERS
STERN RAKE / SAFE FOR HOTWORK.

CARGO TANKS:

No. 1-2-3 P/S

TRIM TANK / SAFE FOR WORKERS
SAFE FOR HOTWORK.

FORCED AIR VENTILATION REQUIRED IN WORK TANK.
(MIN. 1000 CFM)

CARGO LINES FROM MANIFOLD / BLOWN WITH AIR
ON DECK TO CARGO TANKS / SAFE FOR HOTWORK
* AIR REQUIRED BLOWING THRU LINES.

LINES TO METER AND TO PUMPS - NOT SAFE FOR HOTWORK.

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [Signature] SBA 9/23/93 Signed [Signature] 577
Name Date Marine Chemist Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

(409) 832-6400, 898-4822, 866-4223 W.O.# 1339		SERIAL NO. F 77709	
W.B. HATAWAY 537 K.L. MERCER 577			
Survey Requested by <u>SBA</u>		TAllen MARINE	
Vessel <u>T-13</u>		Vessel Owner or Agent <u>TANK BARGE SBA/LEVIAC/SEAWAYS</u>	
Last Three (3) Cargoes <u>DIESEL (3X)</u>		Type of Vessel <u>2, LEL, VISUAL</u>	
		Date <u>10-31-94</u>	
		Specific Location of Vessel <u>12:30 PM</u>	
		Time Survey Completed	

BOW RAKE / 0% LEL - CLOSED & SECURED
 STERN RAKE /

CARGO TANKS:
 No. 1 P/S, 2 S, 3 P/S, 4 P/S / 0% LEL
 TRIM TANK / NOT SAFE FOR WORKERS
 NOT SAFE FOR HOTWORK

CARGO TANK No. 2 P — SAFE FOR WORKERS
 SAFE FOR HOTWORK
 HOTWORK LIMITED TO MAKING SIDE SHELL REPAIRS.
 FORCED AIR VENTILATION REQUIRED (MIN. 1000CFM)
 ATTACH GROUND IN-WAY OF WORK AREA.

LOCAL SHIFTING WITH-IN YARD APPROVED

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed <u>James Marshall</u>	Company <u>SBA</u>	Date <u>10-31-94</u>	Signed <u>Tommy Oliver</u>	Certificate No. <u>577</u>
Name		Marine Chemist		Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

SBA TALLONS 6-9-95
Survey Requested by Vessel Owner or Agent Date
GLENN C TANK BARGE SBA/HENNINGSS, LA.
Vessel Type of Vessel Specific Location of Vessel
DIESEL FUEL (31) 02, LEL, VISUAL 8:15 AM
Last Three (3) Cargoes Tests Performed Time Survey Completed

BOW RAKE - SAFE FOR WORKERS / SAFE FOR HOTWORK

0% LEL, 20.8% O₂

STERN RAKE - FULL OF WATER BALLAST - SAFE FOR HOTWORK

CARGO TANKS:

No. 1-2 PORT & STBD - SAFE FOR WORKERS / SAFE FOR HOTWORK

0% LEL, 20.8% O₂

FORCED AIR VENTILATION REQUIRED IN WORK TANK

LOCAL SHIFTING IS APPROVED.

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed Paul Webster SBA 6-9-95 Signed Paul Webster 577
Name Company Date Marine Chemist Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS